REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
		FINAL 01 JAN 95 TO 31 DEC 95

4. TITLE AND SUBTITLE
WORKSTATION FOR PROCESS ANIMATION AND VIDEO ANALYSIS

5. FUNDING NUMBERS
F49620-96-1-0096

6. AUTHOR(S)
DR VISHWANATH PRADAS

61102F 3484/US

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
STATE UNIVERISTY OF NEW YORK AT STONY BROOK
DEPARTMENT OF MECHANICAL ENGINEERING
STONY BROOK, NY 11794-2300

AFOSR-TR-96
0199

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)
AFOSR/NM
110 DUNCAN AVE, SUITE B115
BOLLING AFB DC 20332-0001

10. SPONSORING/MONITORING AGENCY REPORT NUMBER
F49620-95-1-0096

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION/AVAILABILITY STATEMENT
APPROVED FOR PUBLIC RELEASE:
DISTRIBUTION UNLIMITED

12b. DISTRIBUTION CODE

13. ABSTRACT (Maximum 200 words)
SEE REPORT FOR ABSTRACT

14. SUBJECT TERMS

15. NUMBER OF PAGES

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCALSSIFIED	UNCLASSIFIED	UNCLASSIFIED	SAR

FINAL REPORT for AFOSR Grant No. F496209510096

Project Title: **WORKSTATION FOR PROCESS ANIMATION AND VIDEO ANALYSIS**

As proposed, the infrastructure for computation, process animation and graphical analysis has been greatly improved by acquiring new equipment in the Process Modeling Laboratory. A silicon Graphics Indigo 2 workstation with enhanced RAM and storage capability, a Tektronix Dye-sublimation Color Printer (Model Phaser 440) and two SUN X-terminals together with many other peripheral devices were purchased from this grant. Special software have been acquired to create process animation videos and graphical data analysis. A special algorithm and computer code has also been developed in-house to analyze data from the experimental videos, particularly for temperature field visualization and calculations of temperature gradients and fluctuations. Results obtained using these equipment have been presented at several technical meetings including AFOSR Grantees Conference, ASME meetings and crystal growth conferences.